20

25

30

CLAIMS

What is claimed is:

- 1. A curable coating composition useful in providing a chip resistant two-tone finish comprising:
- (a) a plurality of hydroxyl-functional polyester resins, said resins having an average hydroxyl functionality of at least 2.1, a hydroxyl number from about 75 to 400 mg KOH/g, a number average molecular weight from about 1,000 to 10,000, and an acid number from about 1 to 30;
- (b) a curing agent; and,
 - (c) a barium sulfate component included in an amount from about 10 to 50 parts by weight, based upon total weight of binder solids;

wherein said curable coating composition has holdout capable characteristics.

- 2. The coating composition of claim 1 wherein a first hydroxyl-functional polyester resin has a glass transition temperature greater than 15°C, and a second hydroxyl-functional polyester resin has a glass transition temperature equal or less than -15°C.
- 3. The coating composition of claim 2 wherein said first hydroxyl-functional polyester resin has a glass transition temperature from about 40 to -15°C, and a second hydroxyl-functional polyester resin has a glass transition temperature from about -15 to -60°C.
- 4. The coating composition of claim 3 wherein said first hydroxyl-functional polyester resin has a glass transition temperature from about 10 to -10°C, and a second hydroxyl-functional polyester resin has a glass transition temperature from about –20 to -40°C.
- 5. The coating composition of claim 1 wherein each of said hydroxylfunctional polyester resins comprises a tri- or higher-functional poly-

alcohol which is selected from the group consisting of 1,1,1-trimethylol propane, 1,1,1-trimethylol ethane, 1,2,3- trimethylol propane, and pentaerythritol.

- The coating composition of claim 1 wherein each of said hydroxylfunctional polyester resins has an average hydroxyl functionality from about 2.2 to 4.8.
- 7. The coating composition of claim 6 wherein each of said hydroxylfunctional polyester resins has an average hydroxyl functionality from about 2.5 to 3.0.
 - 8. The coating composition of claim 1 wherein each of said hydroxylfunctional polyester resins has a number average molecular weight from about 1,000 to 5,000.
 - 9. The coating composition of claim 1 wherein each of said hydroxyl-functional polyester resins has a hydroxyl number from about 100 to 250 mg KOH/g.

20

- 10. The coating composition of claim 1 wherein said barium sulfate component comprises from about 20 to 40 parts by weight based on the total weight of binder solids.
- 11. The coating composition of claim 10 wherein said barium sulfate component comprises from about 28 to 40 parts by weight based on the total weight of binder solids.
- 12. The coating composition of claim 1 wherein said curing agent is a melamine formaldehyde resin comprising a monomeric melamine, a polymeric melamine, or any mixture thereof.

- 13. The coating composition of claim 12 wherein said melamine formaldehyde resin comprises from about 10 percent to 50 percent by weight, based on the total weight of binder solids.
- 5 14. The coating composition of claim 13, wherein said melamine resin comprises from about 15 percent to 40 percent by weight, based on the total weight of binder solids.
- 15. The coating composition of claim 14 wherein said melamine resin comprises from about 20 percent to 35 percent by weight, based on the total weight of binder solids.
 - 16. The coating composition of claim 1 wherein said curing agent is a blocked or unblocked polyisocyanate resin, or any mixture thereof.

17. The coating composition of claim 16 wherein said polyisocyanate comprises one or more trimers selected from the group consisting of hexamethylene diisocyanate, isophorone diisocyanate, metatetramethylxylylene diisocyanate, and a combination thereof.

- 18. The coating composition of claims 1 further comprising a flow-modifying agent.
- 19. The coating composition of claim 1 further comprising an oleophillic zircoaluminate coupling agent.
 - 20. The coating composition of claim 1 further comprising a flow modifying resins.
- The coating composition of claim 1 further comprising magnesium silicate filler component.

- 22. The coating composition of claim 21, wherein said magnesium silicate pigment comprises from about 1% to 5% parts by weight, based on the total weight of binder solids.
- 5 23. The coating composition of claim 1 further comprising a pigment component.
 - 24. The coating composition of claim 1 further comprising an organically modified clay filler component.

20

25

- 25. The coating composition of claim 1 further comprising 0.1 to 2.0% by weight, based on the total weight of the binder, of blocked acid catalyst.
- 26. The coating composition of claim 25 wherein said blocked acid catalyst comprises an organic sulfonic acid blocked with a hydroxyl functional alkyl amine.
 - 27. The coating composition of claim 1 further comprising 0.1% to 10% by on the total weight of binder solids, of hindered amine stabilizers and ultraviolet light absorbers.
 - 28. A method for coating a substrate with the coating composition of claim 1 to achieve a multiple color, chip resistant, finish, comprising:
 - (a) applying the coating composition of claim 1 to an accent color area of a substrate:
 - (b) applying a second, different primer surfacer coating to a non-accent area surface of a substrate:
 - (c) applying an accent color basecoat coating wet-on-wet over the aforementioned coating composition of claim 1 in the accent color area of a substrate;
 - (d) curing the above composite coating in a first bake;

- (e) covering the cured accent color area with a protective membrane;(f) applying a main color basecoat layer to the surface of a substrate;
- (g) removing said protective membrane from said cured accent color area:
 - (h) applying over said main color basecoat layer and said cured accent color area, a clear coat composition; and
 - (i) curing the finish in a second bake.

20

- 29. A method for coating a substrate with the coating composition of claim 1 to achieve a multiple color, chip resistant, finish, comprising:
 - (a) applying the coating composition of claim 1 to the surface of a substrate:
- (b) applying an accent color basecoat coating wet-on-wet over the aforementioned coating composition of claim 1 in the accent color area of a substrate;
 - (c) curing the above composite coating in a first bake;
 - (d) covering the cured accent color area with a protective membrane;
 - (e) applying a main color basecoat layer to the surface of a substrate;
 - (f) removing said protective membrane from said cured accent color area;
 - (g) applying over said main color basecoat layer and said cured accent color area, a clear coat composition; and
 - (h) curing the finish in a second bake.
- 30. The method of claims 28 or 29 wherein said substrate is a transportation vehicle substrate.
 - 31. A substrate coated with the composition of claim 1.

32. A substrate having a multi-layer coating comprising a pigmented primer coating of the composition of claim 1, a base coating comprising a pigmented coating composition, and a clear top-coating.